

REMARKS

Claims 1, 3-6, and 8-10 were presented and examined. In response to the Final Office Action, Claims 1, 3, 4-6 and 10 are amended. Claims 2 and 7 were cancelled previously. Applicants respectfully request reconsideration in view of the following remarks and amendments.

I. Objections to the Claims

Claims 1 and 3-5 are objected to because of the following informalities:

- (1) In claim 1, line 3, change, "transmitting stations" to - - transmitting station - - ;
- (2) In claim 1, lines 8, define N, for example, wherein N is 5;
- (3) In claim 1, line 13 and line 22, define M;
- (4) In claim 3, line 2, define N;
- (5) In claim 4, line 3, change, "the value of to - - a value of - - ;
- (6) In claim 6, line 4, define N;
- (7) In claim 6, line 8, define M;
- (8) In claim 6, line 12, change, the memory" to - - a memory - - ;
- (9) In claim 10, line 1, define N;
- (10) In claim 10, line 3, define M.

With respect to the objections to the claims based on the elements of "N" and "M," claims 1, 3, 6 and 10 are amended to include elements related to "N is a natural number" and "M is a natural number." See Specification, page 9, line 7 and page 12, line 12. Claims 1, 5 and 6 are amended to have the elements of "transmitting stations" state "plurality of transmitting stations" instead. Claim 4 is amended to have the elements of "the value" state "a value." Claim 6 is amended to have the elements of "the memory" state "a memory." In light of the amendments, Applicants submit that the objections to claims 1, 3-5, 6 and 10 have been overcome. Accordingly, reconsideration and withdrawal of the objection to claims 1 and 3-5 are respectfully requested.

II. Claims Rejected Under 35 U.S.C. § 103

Claims 1, 3-6 and 8-10 stand rejected under 35 U.S.C. § 103(a) as being unpatentable over Weiss (U.S. Patent Publication No. 2002/0140867) in view of Gaddam et al. (U.S. Patent No. 6,744,822) and further in view of Karaoguz (U.S. Patent No. 7,315,579).

Claim 1, as amended, recites the elements of “when the memory of the precoder is initialized by the second feedback loop, the trellis encoding means generates two initialization symbols for output in the predetermined data field period M.” Support for the amendments may be found, for example, in page 13, lines 11-13 of the Specification.

The cited art fails to teach or suggest the above cited elements in amended claim 1. First, the Examiner has conceded (see page 4 of the Final Office Action) that Weiss fails to teach or suggest elements related to the first and second switching means and the feedback loops to initialize the memories of the precoder and the encoder. As a result, Weiss also fails to teach or suggest the elements of “when the memory of the precoder is initialized by the second feedback loop, the trellis encoding means generates two initialization symbols in the predetermined data field period M,” as recited in amended claim 1.

Further, Fig. 1 of Gaddam fails to teach the above cited elements in amended claim 1. In contrast, Gaddam discloses that 3 respective output bits (e.g., z_0 , z_1 and z_2) are mapped to a *single symbol R* (e.g., one of the eight analog signal levels) instead of “two initialization symbols in the predetermined data field period M,” as recited in amended claim 1. See Gaddam, column 3, lines 18-22. Further, Fig. 16 of Karaoguz discloses that the TCM encoder generates “a triple-bit output” but fails to teach or suggest that the generated triple-bit forms “two initialization symbols,” in the manner recited in amended claim 1. See Karaoguz, column 10, lines 39-43.

Thus, in view of at least the reasons set forth above, Weiss in view of Gaddam in further view Karaoguz fails to teach or suggest each element in amended claim 1. With respect to dependent claims 3-5, these claims are patentable the cited art because each of these claims depends on base claim 1. Accordingly, reconsideration and withdrawal of the rejection of claims 1 and 3-5 are respectfully requested.

With respect to independent claim 6, this claim has been amended to recite analogous elements to those discussed above in connection with amended claim 1. Thus, amended claim 6 is patentable over the cited art for the same reasons discussed above. In addition, dependent claims 8-10 are patentable over the art of record because each of these claims depends on base claim 6. Accordingly, reconsideration and withdrawal of the rejection of claims 6 and 8-10 are respectfully requested.

CONCLUSION

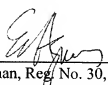
In view of the foregoing, it is believed that all claims now pending patentably define the subject invention over the prior art of record, and are in condition for allowance and such action is earnestly solicited at the earliest possible date. If the Examiner believes that a telephone conference would be useful in moving the application forward to allowance, the Examiner is encouraged to contact the undersigned at (310) 207 3800.

Respectfully submitted,

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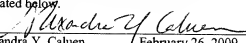
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